

11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244 East 11115 Montgomery, Suite B, Spokane, WA 99206-4776 9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711

(425) 420-9200 (509) 924-9200

FAX 420-9210 )24-9290

(503) 906-9200

Faa 906-9210 (541) 383-9310 FAX 382-7588

# **CHAIN OF CUSTODY REPORT**

# Work Order #: <u>№ 1 06 09</u>

CLIENT: BRISTOL			INVOICE TO:											TURNAROUND REQUEST in Business Days*						
REPORT TO: AND	KRANAU	ETT	ER	Name and Address of the Owner, where the Owner, which is the Owner, where the Owner, which is the	BR	157	00											rganic Analyse		1
ADDRESS: AMCHIT	ICA ISLAN	Di	AR	-											STD.	7 5				<1
PHONE: 907-770	0974 FAX: 770-0975 P.O. NUMBER: 21090								STD. Petroleum Hydrocarbon Analyses  5   4   3   2   1   < 1											
PROJECT NAME: ANCH								ED ANA	ALYSE:	S					ST	D.		Please Specia	fv	-
PROJECT NUMBER:				0							7					OTH		rease opeen		
SAMPLED BY:	p & Doug	F		1 1/2											*Turnar	ound Request:	s less than s	standard may inc	cur Rush Ch	arges.
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**Bend** 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711 541.383.9310 fax 541.382.7588

6 December, 2001

Anne Kranawetter Bristol Environmental & Engineering 2000 W International Airport C#1 Anchorage, AK 99502-1116

RE: Amchitka

Enclosed are the results of analyses for samples received by the laboratory on 06/30/01 17:14. If you have any questions concerning this report, please feel free to contact me.

This report was recreated from a previously issued final report in order to provide an electronic copy. The final report used for these electronic copies may have been previously issued as an amended report due to client requested changes to sample names, etc. No data has changed since submission of the previously issued final, or amended, report.

Sincerely,

Stephen Wilson

**Environmental Group Leader** 

1112

Work Orders included in this report:

M106097



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Bristol Environmental & Engineering Project: Amchitka 2000 W International Airport C#1 Project Number: 21090

Reported:

07/02/01 14:26

Anchorage, AK 99502-1116 Project Manager: Anne Kranawetter

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
01AMF1501SL	M106097-01	Soil	06/30/01 12:10	06/30/01 17:14
01AMF1502SL	M106097-02	Soil	06/30/01 12:20	06/30/01 17:14
01AMF1503SL	M106097-03	Soil	06/30/01 14:05	06/30/01 17:14
01AMF1504SL	M106097-04	Soil	06/30/01 17:10	06/30/01 17:14

COC #134

North Creek Analytical - Mobile Lab



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Bristol Environmental & Engineering 2000 W International Airport C#1

Project: Amchitka
Project Number: 21090

Reported:

Anchorage, AK 99502-1116

Project Manager: Anne Kranawetter

07/02/01 14:26

# Diesel Hydrocarbons (C10-C25) per AK102 North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
01AMF1501SL (M106097-01) Soil					Sampled: 06	/30/01 Rece	eived: 06/30/	01	
Diesel Range Organics	5180	150	mg/kg dry	1	AK 102	07/01/01	07/01/01	0107001	
Surr: 1-Chlorooctadecane	69.3 %	50-150							
Surr: Triacontane	93.9 %	50-150							
01AMF1502SL (M106097-02) Soil					Sampled: 06	/30/01 Rece	eived: 06/30/	01	
Diesel Range Organics	ND	150	mg/kg dry	1	AK 102	07/01/01	07/01/01	0107001	
Surr: 1-Chlorooctadecane	62.0 %	50-150							
Surr: Triacontane	72.5 %	50-150							
01AMF1503SL (M106097-03) Soil					Sampled: 06	/30/01 Rece	eived: 06/30/	01	
Diesel Range Organics	ND	150	mg/kg dry	1	AK 102	07/01/01	07/01/01	0107001	
Surr: 1-Chlorooctadecane	58.8 %	50-150							
Surr: Triacontane	128 %	50-150							

North Creek Analytical - Mobile Lab



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Bristol Environmental & Engineering Project: Amchitka 2000 W International Airport C#1 Project Number: 21090

Anchorage, AK 99502-1116 Project Manager: Anne Kranawetter 07/02/01 14:26

# BTEX,MTBE and Naphthalene per EPA Method 8021B North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
01AMF1501SL (M106097-01) Soil					Sampled: 06	/30/01 Rece	eived: 06/30/	01	
Benzene	ND	0.100	mg/kg dry	50	!1B BTEX/M	Π 06/30/01	06/30/01	0106107	
Toluene	ND	0.400	"	"	"	"	"	"	
Ethylbenzene	ND	0.400	"	"	"	"	"	"	
Xylenes (total)	ND	0.800	"	"	"	"	"	"	
Naphthalene	ND	4.00	"	"	"	"	"	"	
Surr: 4-BFB	89.6 %	50-150							
01AMF1502SL (M106097-02) Soil					Sampled: 06	/30/01 Rece	eived: 06/30/	01	
Benzene	ND	0.0729	mg/kg dry	50	!1B BTEX/M	Π 06/30/01	06/30/01	0106107	
Toluene	ND	0.292	"	"	"	"	"	"	
Ethylbenzene	ND	0.292	"	"	"	"	"	"	
Xylenes (total)	ND	0.583	"	"	"	"	"	"	
Naphthalene	ND	2.92	"	"	"	"	"	"	
Surr: 4-BFB	97.3 %	50-150							
01AMF1503SL (M106097-03) Soil					Sampled: 06	/30/01 Rece	eived: 06/30/	01	
Benzene	ND	0.0709	mg/kg dry	50	!1B BTEX/MT	Π 06/30/01	06/30/01	0106107	
Toluene	ND	0.284	"	"	"	"	"	"	
Ethylbenzene	ND	0.284	"	"	"	"	"	"	
Xylenes (total)	ND	0.567	"	"	"	"	"	"	
Naphthalene	ND	2.84	"	"	"	"	"	"	
Surr: 4-BFB	86.5 %	50-150							
01AMF1504SL (M106097-04) Soil					Sampled: 06	/30/01 Rece	eived: 06/30/	01	
Benzene	ND	0.138	mg/kg dry	50	!1B BTEX/MT	Π 06/30/01	06/30/01	0106107	
Toluene	ND	0.551	"	"	"	"	"	"	
Ethylbenzene	ND	0.551	"	"	"	"	"	"	
Xylenes (total)	ND	1.10	"	"	"	"	"	"	
Naphthalene	ND	5.51	"	"	"	"	"	"	
Surr: 4-BFB	90.6 %	50-150							

North Creek Analytical - Mobile Lab



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Bristol Environmental & Engineering 2000 W International Airport C#1

Project: Amchitka
Project Number: 21090

**Reported:** 07/02/01 14:26

Anchorage, AK 99502-1116 Project Manager: Anne Kranawetter

Physical Parameters per APHA/ASTM/EPA Methods North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit Units	Dilution	Method Pre	pared Analyzed	Batch	Notes
01AMF1501SL (M106097-01) Soil				Sampled: 06/30/01	Received: 06/30	/01	
% Solids	89.5	0.0100 % by Weight	t 1	Gravimetric 07/0	01/01 07/02/01	0107009	
01AMF1502SL (M106097-02) Soil				Sampled: 06/30/01	Received: 06/30	/01	
% Solids	86.6	0.0100% by Weight	t 1	Gravimetric 07/0	01/01 07/02/01	0107009	
01AMF1503SL (M106097-03) Soil				Sampled: 06/30/01	Received: 06/30	/01	
% Solids	88.1	0.0100 % by Weight	t 1	Gravimetric 07/0	01/01 07/02/01	0107009	
01AMF1504SL (M106097-04) Soil				Sampled: 06/30/01	Received: 06/30	/01	
% Solids	100	0.0100 % by Weigh	t 1	Gravimetric 07/0	01/01 07/02/01	0107009	

North Creek Analytical - Mobile Lab



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Bristol Environmental & Engineering 2000 W International Airport C#1

Project: Amchitka
Project Number: 21090

**Reported:** 07/02/01 14:26

Anchorage, AK 99502-1116

Project Manager: Anne Kranawetter

## Diesel Hydrocarbons (C10-C25) per AK102 - Quality Control

### **North Creek Analytical - Mobile Lab**

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Analyte	Result	Limit Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 0107001 - 3545 ASE									
Blank (0107001-BLK1)			Prepare	ed & Analy	yzed: 07/0	1/01			
Diesel Range Organics	ND	150 mg/kg wet							
Surr: 1-Chlorooctadecane	23.5	"	23.4		100	50-150			
Surr: Triacontane	16.0	"	23.4		68.4	50-150			
LCS (0107001-BS1)			Prepare	ed & Analy	yzed: 07/0	1/01			
Diesel Range Organics	1050	150 mg/kg wet	1250		84.0	75-125			
Surr: 1-Chlorooctadecane	22.9	"	23.4		97.9	50-150			
Surr: Triacontane	27.8	"	23.4		119	50-150			
LCS Dup (0107001-BSD1)			Prepare	ed & Analy	yzed: 07/0	1/01			
Diesel Range Organics	1050	150 mg/kg wet	1250		84.0	75-125	0	20	
Surr: 1-Chlorooctadecane	23.7	"	23.4		101	50-150			
Surr: Triacontane	29.5	"	23.4		126	50-150			
Matrix Spike (0107001-MS1)	Sour	rce: M106094-01	Prepare	ed & Analy	yzed: 07/0	1/01			
Diesel Range Organics	1840	150 mg/kg dry	1520	168	110	60-140	·		
Surr: 1-Chlorooctadecane	27.8	"	28.6		97.2	50-150			
Surr: Triacontane	20.3	"	28.6		71.0	50-150			

North Creek Analytical - Mobile Lab



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Bristol Environmental & Engineering Project: Amchitka 2000 W International Airport C#1 Project Number: 21090

Reported:

Anchorage, AK 99502-1116 Project Manager: Anne Kranawetter

07/02/01 14:26

#### BTEX,MTBE and Naphthalene per EPA Method 8021B - Quality Control

## North Creek Analytical - Mobile Lab

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch 0106107 - MeOH Extraction	on						
Blank (0106107-BLK1)				Prepared &	Analyzed: 06/30	0/01	
Benzene	ND	0.0250 m	ıg/kg wet				
Toluene	ND	0.100	"				
Ethylbenzene	ND	0.100	"				
Xylenes (total)	ND	0.200	"				
Naphthalene	ND	1.00	"				
Surr: 4-BFB	2.45		"	2.50	98.0	50-150	
LCS (0106107-BS1)				Prepared &	Analyzed: 06/30	0/01	
Benzene	2.11	0.0250 m	ıg/kg wet	2.50	84.4	69-138	
Toluene	2.28	0.100	"	2.50	91.2	53-151	
Ethylbenzene	2.55	0.100	"	2.50	102	61-141	
Xylenes (total)	7.23	0.200	"	7.50	96.4	62-141	
Naphthalene	2.96	1.00	"	2.50	118	65-135	
Surr: 4-BFB	2.64		"	2.50	106	50-150	

North Creek Analytical - Mobile Lab



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Anchorage, AK 99502-1116 Project Manager: Anne Kranawetter 07/02/01 14:26

#### **Notes and Definitions**

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis. MRLs are adjusted if %Solids are less than 50%.

wet Sample results reported on a wet weight basis (as received)

RPD Relative Percent Difference

North Creek Analytical - Mobile Lab

## **Items for Project Manager Review**

LabNumber	Analysis	Analyte	Exception
			Report recreated from:
			\\sisters\elmnt\Report\M106097 FINAL 07 02 01
			1426.mdb
			Default Report (not modified)